

AMENDMENTS TO THE CLAIMS

Please amend the Claims as follows:

1. (Original) A motor stator and heat sink system for facilitating the manufacture and use of electrical components through tailored stacking and cooling comprising, in combination:

a plurality of similarly configured thin plates fabricated of an electrically conductive material, each plate having an essentially circular imperforate exterior peripheral ring with an exterior diameter and an essentially circular interior opening with a plurality of radial legs extending inwardly from the peripheral ring at symmetrically spaced locations and terminating at the interior opening, the legs having parallel, essentially radial, edges along the majority of their lengths with enlargements adjacent to the interior opening, small spaces between the enlargements adjacent to the opening and wedge shaped spaces between the legs along the majority of their extents, the radius of the interior opening being less than the radial dimension of the legs and the radial dimension of the ring being less than the radius of the interior opening;

a plurality of similarly configured thin fins fabricated of an electrically conductive material, each fin having an essentially circular exterior peripheral ring with an exterior diameter and an essentially circular interior opening with a

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plurality of radial legs extending inwardly from the peripheral ring at symmetrically spaced locations and terminating at the interior opening, the legs having parallel, essentially radial, edges along the majority of their lengths with enlargements adjacent to the interior opening, small spaces between the enlargements adjacent to the opening and wedge shaped spaces between the legs along the majority of their extents, the radius of the interior opening being less than the radial dimension of the legs and the radial dimension of the ring being greater than the radial dimension of the legs, the fins being similarly configured to the plates except for the radial extent of the rings;

a plurality of plates in stacks with their rings and openings and spaces in alignment and a plurality of fins, each fin being located between a stack of plates, the rings and openings and spaces of the fins being in alignment with the rings and openings and spaces of the plates; and
a layer of an adhesive covering the plates and fins.

2. (Amended) A motor stator and heat sink system:
a plurality of similarly configured plates having ~~an~~ essentially circular a circular exterior peripheral ring with an exterior diameter and an essentially circular interior opening

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with a plurality of radial legs extending inwardly from the ring;

and

a plurality of similarly configured thin fins having ~~an~~
~~essentially circular~~ a circular exterior peripheral ring with an
exterior diameter and an essentially circular interior opening
with a plurality of radial legs extending inwardly from the ring,
the exterior diameter of the fins being greater than the exterior
diameter of the plates;

the plurality of plates in stacks with their rings and
openings and spaces in alignment and a plurality of fins, each
fin being located between a stack of plates, the rings and
openings and spaces of the fins being in alignment with the rings
and openings and spaces of the plates; and

a coupling assembly including a plurality of symmetrically
spaced apertures in the ring of each fin, the apertures being in
axial alignment and located radially exterior of the rings of the
plates.

3. (Cancel)

4. (Original) The system as set forth in claim 2 and
further including a layer of an adhesive covering the plates and
fins.